

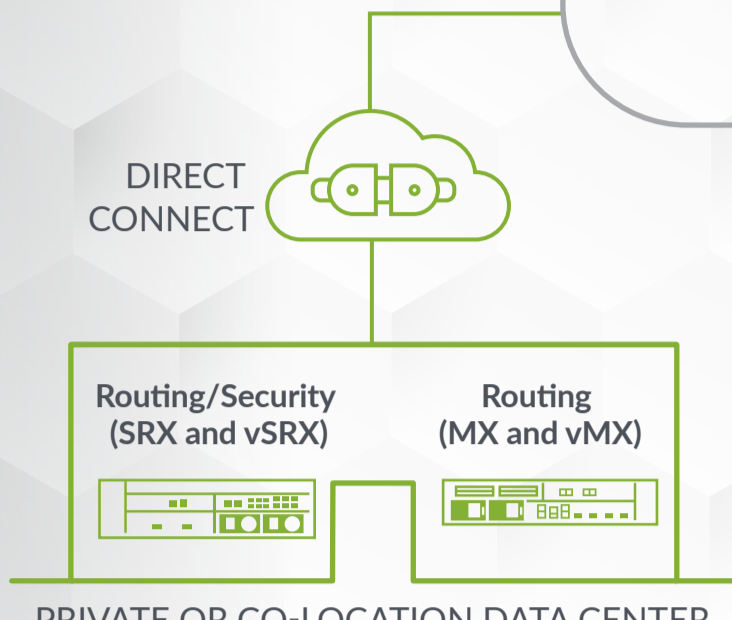
AWS HYBRID CLOUD DIRECT CONNECT

USE JUNIPER TO CONNECT TO AWS RESOURCES

WHAT IS AWS DIRECT CONNECT?

A cloud service solution made to simply establish a dedicated network connection from your premises to AWS. With AWS Direct connect, you can:

- Establish a secure connectivity between your site and AWS (data center, office, or co-location environment)
- Increase bandwidth throughput
- Provide a more reliable and secure network experience than Internet-based connections



WHY DIRECT CONNECT?

- Reduce your bandwidth costs
- Reliable network performance
- Compatible with all AWS services
- Dedicated and private network connection between your enterprise and AWS

HOW IT WORKS



TYPES OF DIRECT CONNECTIONS

Dedicated

A single customer using a 1G or 10G physical Ethernet connection allows customers to request a dedicated connection through the AWS Direct Connect console, the CLI, or the API.

Hosted

AWS Direct Connect partners who provision a 1G or 10G physical Ethernet connection for a customer allows that customer to request a hosted connection by contacting a partner in the AWS Direct Connect Partner Program, who provisions the connection.

Site-to-Site VPN	VS	AWS Direct Connect
<ul style="list-style-type: none"> Create an encrypted connection over the public Internet between your Amazon VPC and your private IT infrastructure. Extend existing security and management policies to the VPC as if they are running within your own infrastructure. Utilizes public internet leading to unpredictable performance. Security risks despite being encrypted. 		<ul style="list-style-type: none"> Bypass public internet. Establish a secure and dedicated connection from your infrastructure into AWS using a 1 GB or 10 GB Ethernet fiber-optic cable with one end of the cable connected to your router and the other to an AWS Direct Connect router. Establish your AWS direct connect routers in large co-locations around the globe with access to all AWS regions. Access your Amazon VPC and all AWS services with established connectivity.

Site-to-Site VPN

AWS Direct Connect

PERFORMANCE	<ul style="list-style-type: none"> <4 GB per VPC 	<ul style="list-style-type: none"> <1 GB, 1 GB, or 10 GB ports Up to 40 GB with Link Aggregation Group (LAG)
CONNECTIVITY	<ul style="list-style-type: none"> 1VPN Connection to VPC 	<ul style="list-style-type: none"> 2 port connection to multiple VPCs
RESILIENCY	<ul style="list-style-type: none"> 1 VPN Connection = 2 VPN tunnels 	<ul style="list-style-type: none"> 1 AWS router = redundant connectivity to 1 AWS region
COSTS	<ul style="list-style-type: none"> \$0.05 per VPN Connection Hour \$0.09 per GB data transfer out 	<ul style="list-style-type: none"> \$0.2 to \$0.3 per GB data transfer out Port hour fees (varies based on port speed)

WHY JUNIPER?



CONSISTENT SECURITY POLICIES



FULL SUITE OF AUTOMATION TOOLING



INCREASED SCALE FOR SECURITY, ROUTING, AND CONNECTIVITY

Security-enabled solutions with consistent policies across hybrid environments

API-based cloud class routing and security in AWS and hybrid environments: *Netconf | GNMI | GRPC*

Seamlessly meet dynamically changing business needs

SECURITY (FAST AND ELASTIC PROTECTION WITH SRX, VSRX)

- Instantly identify and block threats in your public cloud, private cloud or on-premises deployment
- Leverage metadata instead of traditional IP in all security policies
- Automated workload and metadata discoveries
- Automated quarantine infected VMs to specific AWS security group

ROUTING (FASTER CONNECTIVITY WITH MX, VMX, SRX, VSRX)

- vMX and vSRX offers advanced routing capabilities with IPsec*
- Carrier-grade virtual routing solution
- DevOps-style workflows that seamlessly introduce new services
- Automation features that help simplify network management

About Juniper

Juniper Networks® provides the ideal network for your business, that's simple, reliable and secure. Juniper powers the top global service providers and 99 of the Fortune Global 100. More than 86 percent of smartphone traffic in the U.S. is secured by Juniper. Seven of the eight largest international stock exchanges trade across Juniper's networks. The top 5 social media properties run on Juniper Networks, with more than 4.5 billion updates/day & 53,000+ updates/second.

Engineering Simplicity

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